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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,169	03/16/2006	Mats Klingberg	P17051-US1	3845
27045	7590 11/09/2007		EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE			. WONG, ALAN	
M/S EVR 1-C-11 PLANO, TX 75024			ART UNIT	PAPER NUMBER
			2817	
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			MAIL DATE	DELIVERY MODE
			11/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extension of time may be available under the provisions of 37 CFR 1-180(), no event, howers, may a reply be timely filed.  If NO penid for reply is specified above, the maximum statutory period will apply and will explice 3X (3) MONTHS from the making date of this communication. Failute to received by the other state maximum statutory period will apply and will explice 3X (3) MONTHS from the making date of this communication. Failute to received by the other state maximum statutory period will apply and will explice 3X (3) MONTHS from the making date of this communication. Failute to receive 34 (4) months of the state of the communication of the state of the communication of the commun			TH					
Examiner   Ant Unit   2817		Application No.	Applicant(s)					
Alan Wong		10/595,169	KLINGBERG ET AL.					
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALINIG DATE OF THIS COMMUNICATION.  Extension of time may be evaliable under the provision of 30° EPR 1-180°, in no event howers, may a reply be timely filed  If NO period for reply is specified above, the maximum statutory period will apply and the spire SIX (8) MONTH'S from the maling date of this communication.  Failure to reply within the set or centred period for reply is specified above, the maximum statutory send will apply and the spire SIX (8) MONTH'S from the maling date of this communication.  Failure to reply within the set or centred period for reply is specified above, the maximum statutory and the application become ABANDONE (13 u.S. C. § 133). Any stry increased by the Office lister than three months after five maining date of this communication, even if timuly filed, may reduce any centred guestion that produce any centred period for reply is application in set of the communication of the produce of the communication of the communication of the communication is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 24-46 is/are pending in the application.  4a) Of the above claim(s) is safe withdrawn from consideration.  5) □ Claim(s) 22-48 and 43 is/are rejected.  Claim(s) 27-28 and 43 is/are rejected.  Claim(s) 27-38 and 43 is/are rejected.  Claim(s) 27-38 and 43 is/are rejected.  The Claim(s) 27-38 and 43 is/are rejected.  Claim(s) 27-38 and 43 is/are rejected.  Replication Papers  9) □ The specification is objected to by the Examiner.  Application Papers  9) □ The specification is objected to by the Examiner.  Application Papers  10) □ The action of the produce	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  ■ Extension of time may be available under the provisions of 37 CPR 1.136(a), in no event, however, may a reply be timely liked and the provision of the provisions of 37 CPR 1.136(a), in no event, however, may a reply be timely liked this communication or reply is specified above, the maximum attations period will apply and will example X(b) MONTH'S from the maining date of this communication or reply is specified with the time normal statutor period will be placed with the provision of the through and will example X(b) MONTH'S from the maining date of this communication, even if timely field, may reduce any example them application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ○ Claim(s) 24-46 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ○ Claim(s) 24-26 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ○ Claim(s) 27.38 and 43 is/are rejected.  7) ○ Claim(s) 27.38 and 43 is/are rejected.  7) ○ Claim(s) is/are objected to.  8) ○ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ○ The specification is objected to by the Examiner.  10 ○ The drawing(s) filed on 16 March 2008 is/are: a) ○ accepted or b) ○ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. Sea 37 CFR 1.8(a).  11 ○ Certified copies of the priority documents have been received.  2 ○ Certified copies of the priority documents have been received in Application No  1 ○ All b) ○ Some * c) ○ None of:  1 ○ Certified copies of the priority documents have been received in Application No  2 ○ Cert		1						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Editariosino frime may be available under the proximal of 3 CFR 1.13(6). In no event, however, may a regly be timely field after SIX (8) MONTIS from the mailing date of this communication.  Failine to receive the mailing date of this communication.  Failine to receive the mailing date of this communication.  Failine to receive the mailing date of this communication.  Failine to receive the mailing date of this communication.  Provided by the Diffice later than three morths after the mailing date of this communication, even if timely filed, may reduce any seared patent than adjustment. See 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 16 March 2006.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4 ○ Claim(s) 24-46 is/are pending in the application.  4a) Of the above claim(s) □ is/are withdrawn from consideration.  5 □ Claim(s) 24-26 28-37.39-42 and 44-46 is/are allowed.  6 ○ Claim(s) 27.38 and 43 is/are rejected.  7 □ Claim(s) □ is/are objected to.  8 □ Claim(s) 27.38 and 43 is/are rejected.  7 □ Claim(s) □ is/are objected to.  9 □ The specification is objected to by the Examiner.  10 □ The drawing(s) filed on 16 March 2006 is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Papers  9 □ The specification is objected to by the Examiner.  10 □ All b) □ Some * c) □ None of:  1.□ Certified copies of the priority documents have been received.  2.□ Certified copies of the priority documents have been received in Application No. □ a) □ Copies of the certified copies of the priority documents have been received.  2.□ Certified copies of the priority documents have been received in Application No. □ application from the International Bureau (PCT Rut 17.2(a)).  *See th	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address					
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Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)	10)⊠ The drawing(s) filed on <u>16 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 27, 38, 43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 27 and 38 recite the limitation "the second output voltage amplitude".

  There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 43 recites the limitation "second efficiency maximum". There is insufficient antecedent basis for this limitation in the claim.

## Allowable Subject Matter

- 5. Claim 24-26, 28-37, 39-42, 44-46 allowed.
- 6. Claim 27, 38, 43 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Cited references do not disclose at least controlling the second and third power amplifier entities at output voltage amplitudes below a first output voltage amplitude to deliver less current than a linearly increasing current function defined by zero current at zero output voltage amplitude and a minimum required current at an output voltage equal to a maximum linear output voltage that can be achieved with the first, second,

and third amplifier entities when the second and third amplifier entities deliver current with substantially 180 degrees phase difference in addition to other limitation.

### Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Meinzer (US 5,017,888), Gailus et al. (US 5,071,775), Shiikuma (US 7,262,656), and related patents of the inventors of this application (US 7,279,971, US 7,221,219) disclose similar amplifier systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan Wong whose telephone number is (571) 272-3238. The examiner can normally be reached on Mon-Thurs 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1009.

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